

Kentucky Department of Education
Science Adoption 2008-2014

Provided by the Publisher	ISBN - 9781435000629		Publisher - Carolina Biological Supply Company		Provided by the Publisher
	KY 6th Grade Collection: STC/MS™ Earth in Space, STC/MS™ Energy, Machines, and Motion, STC/MS™ Organisms—From Macro to Micro, and STC/MS™ Properties of Matter				
	Type - P2	Author - National Science Resources Center			
	Copyright - 20007	Edition - 1st	Readability - 900–1190		
	Course - Life, Earth/Space, Technology, and Physical Science		Grade(s) - 6,7,8,9		
	Teacher Edition ISBN if applicable				

Overall Recommendation:

☒ **Recommended as Basal**

Overall Strengths, Weaknesses, Comments:

There are so many activities included, a teacher will need to carefully select the activities that are appropriate to their grade level. The procedures may need to be broken down into smaller portions depending upon the length of a class period and the reading level of your students (attention is also an issue with really long procedures).

Student text incorporates reading and inquiry activities. Has very large, clear pictures and diagrams.

Some of the steps in a procedures should not be done by students and the teacher may need to do additional preparations to what is outlined in the teacher's guide.

This set of books has not been updated for the change in the definition of a planet.

The materials are not well sorted. It will take time to find all of the materials you need for one activity. They are present in the kit, but all the module materials are combined. If you have the kit all to yourself, it would be advisable to resort the materials prior to beginning of the school year.

CRITERIA

This basal resource ...

A. Encompasses KY Content Standards & Grade Level Expectations

☒ **Strong Evidence**
☐ **Moderate Evidence**
☐ **Little or No Evidence**

☐ Text is designed to be used in an elective course outside the Program of Studies

1) Includes the 7 Big Ideas of science to the following extent:

a) Structure and Transformation of Matter ☒ Strong ☐ Moderate ☐ Little ☐ N/A

b) Motion and Forces ☒ Strong ☐ Moderate ☐ Little ☐ N/A

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- c) The Earth and the Universe ☒ Strong ☐ Moderate ☐ Little ☐ N/A
- d) Unity and Diversity ☒ Strong ☐ Moderate ☐ Little ☐ N/A
- e) Biological Change ☒ Strong ☐ Moderate ☐ Little ☐ N/A
- f) Energy Transformation ☒ Strong ☐ Moderate ☐ Little ☐ N/A
- g) Interdependence ☒ Strong ☐ Moderate ☐ Little ☐ N/A
- 2) **Addresses content-specific enduring understandings from the related Program of Studies standards.** ☒ Strong ☐ Moderate ☐ Little ☐ N/A
- 3) **Addresses content-specific skills and concepts from the related Program of Studies standards.** ☒ Strong ☐ Moderate ☐ Little ☐ N/A
- 4) **Content addressed is current, relevant and non-trivial** ☒ Strong ☐ Moderate ☐ Little ☐ N/A
- 5) **Provides opportunities for critical thinking/reasoning** ☒ Strong ☐ Moderate ☐ Little ☐ N/A
- 6) **Strengths, Weaknesses, Comments:**
- Specific strengths-which areas/concepts are covered exceptionally well?
 - Specific weaknesses-which areas/concepts would likely require supplementing?

The Kentucky Core Content for Science is addressed in these four modules. They include activities for 6-9 so a teacher needs to be judicious in the selection of activities. Provides multiple opportunities for critical thinking/reasoning.

B. Functionality & Suitability

- ☒ **Strong Evidence**
☐ **Moderate Evidence**
☐ **Little or No Evidence**

- 1) **Suitability** ☒ Strong ☐ Moderate ☐ Little ☐ N/A
- Should be suitable for use with a diverse population and is free of bias regarding race, age, ethnicity, gender, religion, social and/or geographic environment; is free of stereotyping or bias of any kind.
- 2) **Content quality** ☒ Strong ☐ Moderate ☐ Little ☐ N/A
- Free from factual errors
 - Content is presented conceptually when possible—more than a mere collection of facts
 - Content included accurately represents the knowledge base of the discipline
 - Theories/scientific models contained represent a broad consensus of the scientific community
- 3) **Connections to Literacy** ☒ Strong ☐ Moderate ☐ Little
- Note: may apply to either student or teacher editions*

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- Employs a variety of reading levels and is grade/level appropriate
- Contains pre, during, post reading activities
- Provides opportunities for summarizing, reviewing, and reinforcing vocabulary skills and concepts at multiple levels of difficulty for a variety of learning styles.
- Student text provides opportunity to integrate reading and writing
- Uses vocabulary that is age and content appropriate
- Focuses on critical vocabulary vs. extensive lists
- Identifies key vocabulary through definitions in both text and glossary
- Engaging text- does the text facilitate learning?
- Does understanding the text require having performed the imbedded activities?

4) Connections to Technology

☒ Strong ☐ Moderate ☐ Little

- Integrates technology and reflects the impact of technological advances
- Uses technology in the collection and/or manipulation of authentic data

5) Support for Diverse Learners

☐ Strong ☐ Moderate ☒ Little

- Provides support for ESL students
 - Provides support for differentiation of instruction in diverse classrooms
- Note: may apply only to teacher edition*

6) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

There are many connections to literacy.

No materials are supplied for dealing with ESL and diverse learners.

Includes links to technological advances and uses a limited amount of technology for data collection/analysis.

C. Supports Inquiry and Skill Development

☒ **Strong Evidence**
☐ **Moderate Evidence**
☐ **Little or No Evidence**

1) Promotes Inquiry, research and Application of Learning

☒ Strong ☐ Moderate ☐ Little

- Provides opportunities for inquiry and research that includes activities such as self-selecting topics, formulating authentic questions, gathering information, researching resources, observing, interviewing, and evaluating information, analyzing and synthesizing data and communicating findings and conclusions.
- Requires students to use higher-level cognitive skills (analysis, synthesis, evaluation, etc.)
- Provides activities and projects for students to deepen their knowledge and cultivate and strengthen problem-solving and decision-making skills.
- Provides opportunities for application of learned concepts.
- Uses a variety of relevant charts, graphs, diagrams, time lines, and other illustrations to invite and motivate students to engage in discussion, problem solving, and other high-order thinking skills.
- Emphasizes conceptual understandings that invite students to predict, conclude, evaluate,

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develop and extend ideas to support reasoning.
Note: may apply to either teacher or student edition

2) Skill Development

☒ Strong ☐ Moderate ☐ Little

- Provides opportunities to make sense of data
- Provides opportunities for critical thinking and reasoning (analyze arguments, distinguish fact/opinion, recognize bias)
- Provides opportunities to examine a range of types of evidence
- Contains embedded activities (or extensions) that emphasize use of technology for problem solving

Note: may apply to either teacher or student edition

3) Strengths, Weaknesses, Comments:

The concepts are developed using inquiry activities with supportive reading. Many additional projects for students are suggested.

D. Supports Best Practices of Teaching and Learning

☒ Strong Evidence
☐ Moderate Evidence
☐ Little or No Evidence

1) Engages Students

☒ Strong ☐ Moderate ☐ Little

- Includes content geared to the needs, interests, and abilities of students
- Engages and motivates students using components such as real-life situations, simulations, experiments, and data gathering.
- Includes information and activities that assist students in seeing relevance of concepts (where appropriate) to their own lives and experiences
- Provides a variety of strategies, activities, and materials to enhance student learning at the appropriate learning levels
- Activities are truly congruent to the concepts addressed, not merely correlated

Note: may apply to either teacher or student edition

2) Uses Assessment to Inform Instruction

☒ Strong ☐ Moderate ☐ Little

- Includes multiple means of assessment as an integral part of instruction
- Provides evaluation measures in the teacher edition that supports differentiated learning activities
- Embedded assessments reflect a variety of Depth of Knowledge levels

Note: may apply to either teacher or student edition

3) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards

As students move through a unit, the support for creating a chart or graph decreases. The teacher will need to copy graph paper/ or graph page for students.

The activities congruent to the concepts being addressed. The readings are matched

the the activities.

Both formative and summative assessments are provided. The teacher's edition includes rubrics for scoring student projects.

E. Has an Organization/ Format that Supports Learning and Teaching

☒ Strong Evidence
☐ Moderate Evidence
☐ Little or No Evidence

1) Organizational Quality

☒ Strong ☐ Moderate ☐ Little

- Print and/or electronic materials present minimal barriers to learners
- Presents chapters/lessons in an organized and logical sequence
- Provides clearly stated objectives for each lesson.
- Uses text features (e.g., titles, headings, subheadings, review questions, goals, objectives, space, print, type size, color) to enhance readability.
- Makes use of various forms of media (e.g., CD's, recordings, videos, cassette tapes, computer software, web-based components) as either student or teacher resources
- Includes clear, accurate, appropriate and clearly explained illustrations and/or graphics that reinforce content standards.
- Incorporates a glossary, footnotes, recordings, pictures, and/or tests that aid pupils and teachers in using the book effectively
- Uses grade-appropriate type size

Included media are durable, easy to use and have technical merit

- Construction appears to be durable and able to withstand normal use

2) Essential Components (beyond student and teacher text)

☒ Strong ☐ Moderate ☐ Little

- Items identified as essential components support the learning goals and concept coverage of the basal

3) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

Includes sections on student misconceptions in the teacher's guide. The materials are well marked from module to module. The students materials are easy for students to learn.

Provides teachers with additional background information about the materials, concepts, and activities.

F. Has available Ancillary/ Gratis Materials

Note: The decision whether to recommend or not recommend this resource as a basal should not be influenced by Section F

☐ Strong Evidence
☒ Moderate Evidence
☐ Little or No Evidence

1) Ancillary/Gratis Materials

- Coordinates teacher resources easily with student material (e.g., accompaniments included, student pages shown, instructional technology indicated).
- Are well-organized and easy to use
- Provide substantive learning opportunities and are congruent with student learning goals
- Provide opportunities for high-level thinking, assessment, and/or problem solving

2) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

Consumables are available for purchase.